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Computer Associates®

BrightStor® ARCserve® Backup r11.5 for Linux

BrightStor® ARCserve® Backup for Linux offers world-class data protection for distributed servers, databases and applications, as well as clients for multiple environments, including Linux, UNIX, NetWare and. Windows. With its wide range of powerful, easy-to-use data protection tools, BrightStor ARCserve Backup ensures the integrity and availability of your most important asset — data.

Top Three Key Features

- Complete data protection solution for Linux
- Centralized management of the Backup environment
- SAN-Based Backups

What's New

- Disk Staging Backup and restore (D2D2T)
- 64-bit platform support
- SAP R/3 and Lotus Domino backup agents
- Regulatory compliance enhancements

Supporting Environments

- Redhat, SuSE, TurboLinux, Red Flag, Miracle linux and Asianux
- IBM AIX, SUN Solaris, HP-UX, Tru64
- Windows 2000, 2003, XP
- Novell NetWare

Access to Information Is Key to Success

In an increasingly competitive business environment, the availability of information is often the differentiator between success and failure. The proliferation of the Internet and the movement towards on-demand computing has only heightened the need to effectively leverage information assets to increase revenue and profit opportunities. And at the heart of an organization's information assets are its data resources.

With all the potential disasters in today's world — fire, flood, theft, hardware failure, human error, virus attacks and so forth — every organization needs to protect its data and ensure its continued availability.

As businesses grow, so do their storage requirements, and data protection environments can become extremely complex. As a result, businesses demand exceptional flexibility from software tools. To meet the rising need to manage data growth and provide around-the-clock availability, many organizations are deploying the latest storage technologies, including Storage Area Networks (SANs), Network-Attached Storage (NAS) and Disk Array technologies.

The ideal data protection solution must address the business demands for high performance and availability, scale with the environment and leverage new storage paradigms such as Disk Arrays, SAN, NAS, Snapshot technologies and cross-platform management across the entire enterprise, including multiple operating systems and applications.

Protecting the Enterprise's Critical Information Assets

BrightStor ARCserve Backup ensures the protection and availability of critical business data. BrightStor ARCserve Backup for Linux uses award-winning, innovative technology to deliver complete data protection across the enterprise for Linux, Windows, UNIX and NetWare systems. BrightStor ARCserve Backup provides several key benefits, including:

- **Protection of Critical Business Assets.** BrightStor ARCserve Backup provides data protection for all leading operating systems, hardware platforms and applications.
- **High Performance.** BrightStor ARCserve Backup leverages multiple methods, including backup to disk, disk staging, multiplexing and multi-streaming to provide high-performance, non-disruptive backup and restore operations to mission-critical information and data assets.
- **Simplified Administration.** The simple–to-use web-based interface as shown in Figure 2 provides full automation and centralization of traditional data protection tasks for distributed and enterprise environments.
- **Scalability.** BrightStor ARCserve Backup provides a complete backup solution regardless of the size or type of your organization. Even the largest enterprises can use BrightStor ARCserve Backup to protect all of their data, including protecting distributed branch offices from one centralized server. The advantage lies in that every BrightStor ARCserve Backup option supports many configurations and platforms, including Linux, Windows, NetWare and UNIX.
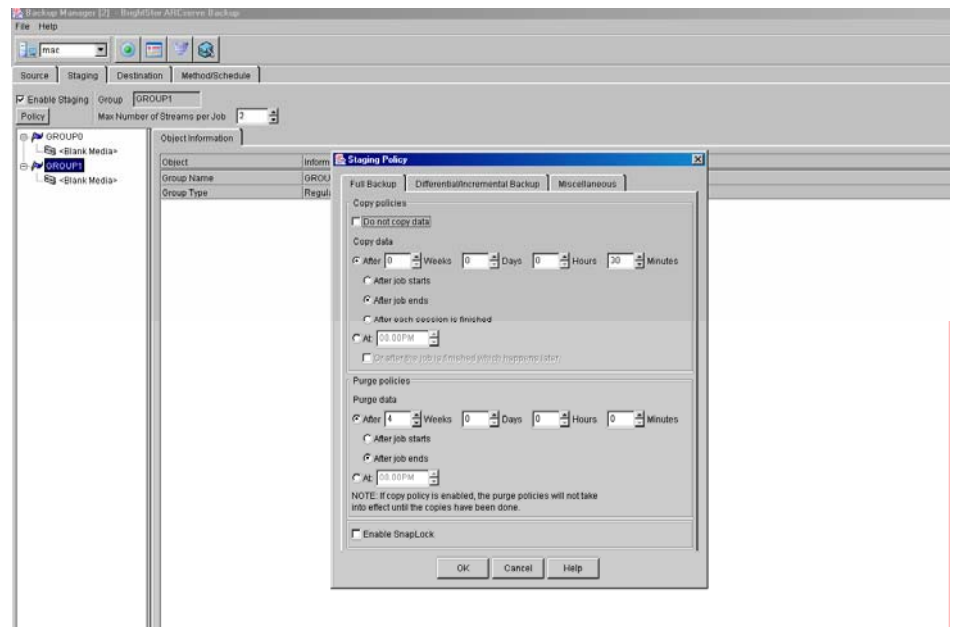

Figure 1: BrightStor ARCserve Backup Disk Staging functionality allows backed-up data to be sent to disk and then to a tape device after a period of time

Distinctive Features and Functionalities

Extensive Operating Platform and Application Support. BrightStor ARCserve Backup has application-specific agents to support all the leading applications, such as Oracle, Lotus/Domino, SAP R/3, MySQL, Ingres and Apache Web Server. They ensure data integrity by protecting the transaction log, archive log and journal files along with the data, and also allow advanced operations such as tablespace backups and restores.

- **Support for extensive list of Linux Distributions.** BrightStor ARCserve Backup can be installed on all common Linux systems including Redhat, SuSE, Turbo, Redflag, Miracle and Asianux among others in both 32- and 64-bit platforms.
- **Oracle 10g and Multi-streaming Support.** BrightStor ARCserve Backup provides full protection for Oracle databases and leverages their Automatic Storage Management (ASM)

feature. It also supports multi-streaming jobs, allowing you to use multiple media simultaneously while backing up or restoring Oracle databases.

- **Support for VMware Sessions.** Virtual machines hosted on a server using VMware can be protected using BrightStor ARCserve Backup

High Performance Backup and Restore

- **Multiplexing Capabilities.** Multiplexing enables up to 32 jobs to write to the same media simultaneously. This allows you shrink your backup window and make efficient use of tape libraries and media.
- **Multi-streaming.** Multi-streaming allows backing up large databases to multiple tape drives simultaneously, reducing backup time
- **Integrated Backup to Disk.** Backup to disk allows you to use disk technology as an intermediate step in the backup process, reducing backup and restore time as well improving their success rate.

- **Bare Metal Recovery.** BrightStor ARCserve Backup bare metal recovery capacities that allow servers to be recovered from catastrophic failures quickly and easily, without the need for reinstalling operating system.

Extensive Device and Media Support

- **BrightStor ARCserve Backup** is optimized for all storage environments, including Disks, SANs, and NDMP NAS devices.

- **Small Library Support** BrightStor ARCserve Backup r11.5 includes support for tape libraries with one drive and unlimited slots without the need for BrightStor®ARCserve® Backup Tape Library Option.

- **Cross-Platform SAN Support.** With BrightStor ARCserve Backup, multiple platforms (such as UNIX, Linux and Windows) can share tape libraries and other storage devices on a SAN without the need to logically partition or zone the device reducing cost and management overhead.

- **TAR and CPIO Support.** This solution supports Quick File Access (QFA) so that you can restore files created in TAR and CPIO formats.

- **NDMP Support.** You can back up to tape drive and libraries attached directly to NAS devices. Three-way NDMP support is also included.

- **Multiple NIC Support.** Multiple NIC cards can be installed to create a separate storage network without the costs associated with deploying a SAN. This can help to avoid data bottlenecks and improve backup performance.

- **Off-Site Vaulting Integration.** BrightStor ARCserve Backup is designed to play a key role in your overall disaster recovery plan. It provides advanced media management for Linux servers and integrates smoothly with your off-site vaulting provider (such as Iron Mountain and others).

Ease of Deployment and Administration

- **Command Line Interface.** You can run common backup and restore functions directly from the command line, which allows you to include these functions in batch files and invoke them from other automation solutions, such as Unicenter® Network and Systems Management.

- **Integrated Antivirus capabilities**. Integration with industry leading *e*Trust™ Antivirus solution ensures the data you backed up is reliable and virus-free

- **Extensive Reporting Capabilities.** BrightStor ARCserve Backup includes predefined report formats, including Real-Time Statistics, Recovery Report, Media Usage, Shipping Content Report, Receiving Content Report and others. These reports can also be sent via email automatically.

- **Multiple Language Support.** BrightStor ARCserve Backup is localized in many European, Asian and South American languages.

Supported Environments

- Redhat Enterprise Linux, SuSE Linux Enterprise Server, TurboLinux, Red Flag, Miracle linux and Asianux
- IBM AIX, SUN Solaris, HP-UX, Tru64
- Microsoft Windows 2000, 2003, XP
- Novell NetWare

For more information about supported environments and system requirements visit

http://ca.com/arcserve/linuxsupport.

What's New in r11.5

- **Disk Staging Backup   (D2D2T).** D2D2T shrinks backup time by allowing backup data to be staged to fast disk drives before it is automatically moved to tape. Restore requests are redirected to disks automatically, reducing recovery time. The whole operation is policy driven, reducing cost and management overhead. (See Figure 1)

- **64-bit Platform Support.** The r11.5 release will allow you to leverage the performance and scalability benefits of 64-bit hardware platform in backup servers as well as protect applications running in 64-bit operating systems.

- **Linux Agents for SAP and Lotus Domino.** r11.5 includes new backup agents for SAP and Lotus Domino on Linux and users can migrate these applications to Linux with the assurance that they are protected by a industry leading backup solution

- **Regulatory Compliance Enhancements.** Features like NetApp Snaplock support, IBM WORM and LTO-3 WORM support will enable you to perform your backups as per regulatory requirements

- **Smart Restore capability.** If BrightStor ARCserve Backup encounters bad media, it redirects the restore job to other media containing the same data without any manual intervention, reducing restore time and management cost.

- **Linux Disaster Recovery Enhancement.** BrightStor® ARCserve® Backup Disaster Recovery Option for

Linux has been revamped with new device and file system support as well as usability enhancements

- **Virtual Machine Backup Support**. BrightStor ARCserve Backup can protect VMWare WS, GSX and ESX sessions.

For more information, call 1-877-246-3674 or visit ca.com